

SEQUENCE LISTING

<110> Helperby Therapeutics Limited

<120> Pain Relief Agents

<130> HELBH/P28724PC

<140> PCT/GB2003/004774

<141> 2003-11-04

<150> GB0226105.5

<151> 2002-11-08

<160> 6

<170> SeqWin99

<210> 1

<211> 1620

<212> DNA

<213> Mycobacterium tuberculosis

<400> 1

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 <212> PRT
 <213> Mycobacterium tuberculosis

<400> 2

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Asn Thr Leu Ser Tyr Gly Asp Leu Ala Ala Asp Gly Val Ile Asp Pro
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Val Lys Val Thr Arg Ser Ala Val Leu Asn Ala Ser Ser Val Ala Arg
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 <212> DNA
 <213> Mycobacterium tuberculosis

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Val Lys Val Ala Lys Lys Thr Asp Asp Val Ala Gly Asp Gly Thr Thr
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Thr Ala Thr Val Ala Ala Val Arg Gly Arg Asn Val Ala Ala Gly Ala
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Asn Gly Lys Arg Gly Lys Ala Val Lys Val Thr Thr Lys Gly Ala Lys
85 90 95
Val Thr Lys Ala Ala Thr Ala Ala Ser Ala Gly Asp Ser Gly Asp Ala
100 105 110
Ala Met Asp Lys Val Gly Asn Gly Val Thr Val Ser Asn Thr Gly Thr
115 120 125
Gly Met Arg Asp Lys Gly Tyr Ser Gly Tyr Val Thr Asp Arg Ala Val
130 135 140
Asp Tyr Val Ser Ser Lys Val Ser Thr Val Lys Asp Lys Val Gly Ala
145 150 155 160
Gly Lys Ala Asp Val Gly Ala Ser Thr Val Val Asn Lys Arg Gly Thr
165 170 175
Lys Ser Val Ala Val Lys Ala Gly Gly Asp Arg Arg Lys Ala Met Asp
180 185 190
Met Ala Thr Gly Gly Val Ser Val Gly Thr Asn Ala Asp Ser Gly Lys
195 200 205

Ala Arg Lys Val Val Val Thr Lys Asp Thr Thr Val Gly Ala Gly Asp
210 215 220

Thr Asp Ala Ala Gly Arg Val Ala Arg Asn Ser Asp Ser Asp Tyr Asp
225 230 235 240

Arg Lys Arg Ala Lys Ala Gly Gly Val Ala Val Lys Ala Gly Ala Ala
245 250 255

Thr Val Lys Arg Lys His Arg Asp Ala Val Arg Asn Ala Lys Ala Ala
260 265 270

Val Gly Val Ala Gly Gly Gly Val Thr Ala Ala Thr Asp Lys Gly Asp
275 280 285

Ala Thr Gly Ala Asn Val Lys Val Ala Ala Lys Ala Asn Ser Gly Gly
290 295 300

Val Val Ala Lys Val Arg Asn Ala Gly His Gly Asn Ala Thr Gly Val
305 310 315 320

Tyr Asp Ala Ala Gly Val Ala Asp Val Lys Val Thr Arg Ser Ala Asn
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<213> Mycobacterium tuberculosis

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Gly Arg Trp Asp Glu Asp Gly Glu Lys Arg Ile Pro Leu Asp Val Ala
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Glu Gly Asp Thr Val Ile Tyr Ser Lys Tyr Gly Gly Thr Glu Ile Lys
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Tyr Asn Gly Glu Glu Tyr Leu Ile Leu Ser Ala Arg Asp Val Leu Ala
85 90 95

Val Val Ser Lys
100